

Thursday 6/5/2008

- 8:30a - 12:00p:** Short Course - Introduction to Cluster Analysis - Dave Dubin
Category: FLC 214A&B
Note
Introduction to Cluster Analysis
Dave Dubin, University of Illinois
- 1:30p - 3:30p:** Invited Session - High Dimensional Data
Category: FLC 214A&B
Note
1) Single linkage cluster analysis as a tool for hypervariate outlier detection prior to classification
Peter L. Flom, BrainScope, Inc
2) Nonparametric Clustering on Mixtures of Longitudinal/Functional Data
Haiyan Wang, Kansas State University
- 3:45p - 5:45p:** Invited Session - Partition Models
Category: FLC 214A&B
Note
1) Nested Dirichlet Processes
Abel Rodriiguez, U. California Santa Cruz
2) Using Gene Annotation as Prior Information in Bayesian Nonparametric Models
David Dahl, Texas A&M University
3) Bayesian Clustering with Regression
Peter Mueller, M.D. Anderson Cancer Center
- 6:00p - 9:00p:** Reception
Category: King Center
Note
Bernard Becker Medical Library
7th floor

Friday 6/6/2008

- 8:30a - 10:30a:** Session
Category: FLC 401A&B
Note
1) Minimum Sum-of-Squares Clustering, the p-median and affinity propagation
Pierre Hansen, GERAD and HEC Montréal
2) Modeling Rasch related concomitant-variable models: rest-total score approach to estimating parameters
Li, Anderson, University of Illinois
- 8:30a - 10:30a:** Session
Category: FLC 214A&B
Note
1) The Ultrametric Topology Perspective on Analysis of Massive, Very High Dimensional Data Stores
Fionn Murtagh Science Foundation Ireland, Dublin, Ireland, and Department of Computer Science, Royal Holloway, University of London
2) Elemental Set Methods
David Banks, Duke University
3) The Evolution of Up-and-Down designs for Hazard Classification and Other Uses
Nancy Flournoy, University of Missouri
- 10:45a - 12:45p:** Invited Session
Category: FLC 214A&B
Note
1) Microarray Analysis Using Survival Techniques,
Tony Sun, University of Missouri – Columbia
2) A Linear Mixed Model, Fixed or Random Effects?,
Dongchu Sun and Fei Liu, University of Missouri-Columbia

10:45a - 12:45p: Invited Session
 Category: FLC 214A&B
 Note

1) Microarray Analysis Using Survival Techniques,
 Tony Sun, University of Missouri – Columbia

2) A Linear Mixed Model, Fixed or Random Effects?,
 Dongchu Sun and Fei Liu, University of Missouri-Columbia

3) Multivariate Density Estimates using Geometric Methods,
 Leonard B Hearne, University of Missouri at Columbia

10:45a - 12:45p: Session
 Category: FLC 401A&B
 Note

1) A Mathematical Statistics Formulation of the Teleseismic Explosion Identification Problem with Multiple Discriminants,
 Anderson, Fagan, Tinker, Kraft, Hutchenson

2) Similarity Analysis and its Applications for Bayesian Clustering
 Fernando A. Quintana, Departamento de Estadística, Pontificia Universidad Católica de Chile

3) A Branch-and-Cut SDP-based Algorithm for Minimum Sum-of-Squares Clustering,
 Daniel Aloise, École Polytechnique de Montréal

12:45p - 2:15p: Lunch/Board Meeting
 Category: On Own
 Note

Board Meeting

Conference Room, General Medical Sciences, Wohl Hospital Suite 108

2:15p - 3:30p: Keynote
 Category: FLC 214A&B
 Note

What Is Cultural Phylogeny, and How Do We Recognize It?
 Michael J. O'Brien
 University of Missouri

3:45p - 5:45p: Biology
 Category: FLC 401A&B
 Note

1) Permanent Classification Model with Application to Microarray Analysis,
 Jie Yang, University of Illinois at Chicago

2) Simultaneous Cancer Classification and Gene Selection with Bayesian Nearest Neighbor Method: An Integrated Approach,
 Sounak Chakraborty, University of Missouri-Columbia

3) Hierarchical Signal Regression / Classification with Application to Phenotypic Selection,
 Wikle, Holan, University of Missouri, Department of Statistics

3:45p - 5:45p: Classification in Medicine
 Category: FLC 214A&B
 Note

1) Genomic vital signs as a novel diagnostic for ventilator-associated pneumonia: A survival analysis approach,
 Dixon, Schierding, Hayden, Warren, Mason, Brownstein, Minei, Tompkins, Moore, Maier, Schoenfeld, Cobb, Washington University

2) Principal Component Dynamics of Systemic Inflammation due to Critical Illness and Pneumonia: Evidence for an Immunological Attractor State,
 Burykin, McDunn, Polpitiya, Dixon, Schierding, Ghosh, Cobb, Washington University

3) Ventilator Associated Pneumonia diagnosis using microarray data,

3:45p - 5:45p: Classification in Medicine
Category: FLC 214A&B
Note

1) Genomic vital signs as a novel diagnostic for ventilator-associated pneumonia: A survival analysis approach,

Dixon, Schierding, Hayden, Warren, Mason, Brownstein, Minei, Tompkins, Moore, Maier, Schoenfeld, Cobb, Washington University

2) Principal Component Dynamics of Systemic Inflammation due to Critical Illness and Pneumonia: Evidence for an Immunological Attractor State,

Burykin, McDunn, Polpitiya, Dixon, Schierding, Ghosh, Cobb, Washington University

3) Ventilator Associated Pneumonia diagnosis using microarray data,

Nan Lin, Washington University in St. Louis, Qing Li, Washington University in St. Louis

6:00p - 9:00p: Dinner Buffet and Reception
Category: King Center
Note

M. Kenton King Faculty Center

Bernard Becker Medical Library
7th floor

Saturday 6/7/2008

8:30a - 10:30a: Viruses
Category: FLC 214A&B
Note

1) Introduction to virus detection using custom microarrays,

David Wang, Washington University in St. Louis

2) A probabilistic algorithm for viral detection via microarray,

Adam Allred Washington University in St. Louis

3) Combining hierarchies and linear discriminant analysis to classify virus species,

Bill Shannon, Washington University in St. Louis

10:45a - 12:45p: Session
Category: FLC 214A&B
Note

1) MCS: A Method for Finding the Number of Clusters,

Ahmed N. Albatineh; Nova Southeastern University, Fort Lauderdale, FL

2) Selection of a Representative Sample, Herbie Lee, University of California, Santa Cruz

3) A Permutation Test for Cluster Validity in K-means Clustering,

Doug Steinley, University of Missouri

10:45a - 12:45p: Single Linkage
Category: FLC 401A&B
Note

1) Visualizing Hierarchical Cluster Structure via Linkage Algorithms,

Rebecca Nugent, Carnegie Mellon University

2) Augmenting Model-Based Clustering with Generalized Linkage Methods,

Nema Dean, University of Glasgow

3) Visualizing and Clustering Students' Skill Sets in a Unit Hyper-cube,

Beth Ayers, Carnegie Mellon University

12:45p - 2:00p: Lunch
Category: On Own

2:00p - 2:45p: Members Meeting
Category: FLC 214A&B

3:00p - 5:00p: Measures of Agreement
Category: FLC 401A&B
Note

1) A Correction of Jaccard and Other Similarity Indices for Chance Agreement in Cluster Analysis

Ahmed N. Albatineh; Nova Southeastern University, Fort Lauderdale, FL

2) Measures of agreement: A guide for applied researchers,

Gretchen Hendrickson/University of Columbia

3:00p - 5:00p: Session
Category: FLC 214A&B
Note

1) The use of covariates in multivariate regression tree analysis in an ecological setting,

Marie-Hélène Ouellette, Université de Montréal

2) Horseshoe effects in multiple correspondence analysis: Distance transformations that let them disappear,

Willem J. Heiser and Matthijs Warrens, Leiden University